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EXAMINER

LY, ANH

ART UNIT

PAPER NUMBER

2172

74

DATE MAILED: 05/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/544,121

Applicant(s)

EVANS ET AL.

Examiner

Anh Ly

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 May 2004.  
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3-22 and 25-33 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1,3-22 and 25-33 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. This Office Action is response to Applicants' amendment filed on 05/03/2004.

#### ***Response to Arguments***

2. Applicant's arguments filed 09/30/2003, 03/19/2004 and 05/03/2004 have been fully considered but they are not persuasive.

Applicants argued that, "absent any discloses in Bosch, individually or combination with other references of a selecting a plurality of operators, generating a network of selected operators, or creating a visual representation of such a network." (Page 11, lines 7-8 of Amendment and Response to Office Action dated 09/30/2003).

Bosch et al. (USN: 6,418,428) (hereinafter Bosch) teaches an analysis network including a set of network operations for analyzing objects in the system with a variety of object tools (col. 3, lines 18-64 and col. 4, lines 19-38). The generation of the analysis network is facilitated by a plurality of object functions that create the path of an analysis network (col. 3, lines 60-67). There are a plurality of operators are depicted as network nodes attached by connectors within the analysis network (col. 4, 22-35). Also the graphics objects, which are a number of icons representative of various analysis objects and databases are visualized to represent a number of analysis objects for creating an analysis network (col. 1, lines 66-67 and col. 2, lines 1-4, also see col. 4, lines 38-45). Thus, Applicants' arguments are not persuasive with the references of record.

3. Claims 1, 3-22 and 25-33 are pending in this application.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 9 and 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,418,428 issued to Bosch et al. (hereinafter Bosch) in view of US Patent No. 6,208,985 issued to Krehel.

With respect to claim 1, Bosch discloses selecting one or more data sources (various relational databases: col. 3, lines 1-17; in the analysis network, one of the analysis objects is data sources: col. 3, lines 50-56; also see col. 2, lines 12-16);

selecting a plurality of operators for analyzing information (an analysis network including a set of network operations for analyzing objects in the system with a variety of object tools: col. 3, lines 18-64 and col. 4, lines 19-38; analysis functions of the analysis network: col. 3, lines 1-3);

linking said plurality of operators together in a network (analysis function connecting a analysis network via a graphics interface operations: col. 3, lines 56-63; operators are depicted as a network nodes attaches by connectors within the analysis network);

creating a visual representation of said network (generation of the analysis network is facilitated by a plurality of object functions that create the path of an analysis network (col. 3, lines 60-67; a plurality of analysis graphics objects, visually representing/a number of icons, for creating analysis network: col. 1, lines 65-67 and col. 2, lines 1-6; a number of icons representative of various analysis objects and databases are visualized to represent a number of analysis objects for creating an analysis network: col. 1, lines 66-67 and col. 2, lines 1-4, also see col. 4, lines 38-45);

detecting whether said data source is a data stream or a database (performing an analysis of a database: col. 5, lines 45-50).

As to the limitations, "evaluating said operators against a database when said data source includes one or more databases and evaluating a data unit against said operator when said data source includes one or more data streams; and creating a plurality of output indicators corresponding to each of said operators on said visual representation of said network, wherein said output indicators visually represent a

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quantified output of said corresponding operators," Bosch does not explicitly indicate including one or more data streams and the output indicators visually represent a qualified output of said corresponding operators.

However, Krehel discloses streams of data and the output of the graphical representation of the output of streams of data (col. 4, lines 8-14).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch with the teachings of Krehel so as to obtain stream of data for analyzing information from a stream of data or database by software of analysis tools (col. 6, lines 15-24). The motivation being that the analysis network including of a plurality of operation to analyze the information via user interface and objects to be analyzed are depicted as nodes as icons and connect in a visually graphics objects analysis network. The analysis information with a network of linked graphical representation operations (Krehel - col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or a selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

With respect to claim 9, Bosch discloses selecting one or more data sources (various relational databases: col. col. 3, lines 1-17; in the analysis network, one of the analysis objects is data sources: col. 3, lines 50-56; also see col. 2, lines 12-16);

selecting a plurality of operators for analyzing information (an analysis network including a set of network operations for analyzing objects in the system with a variety

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of object tools (col. 3, lines 18-64 and col. 4, lines 19-38; analysis functions of the analysis network: col. 3, lines 1-3);

linking said plurality of operators together in a network (analysis function connecting a analysis network via a graphics interface operations: col. 3, lines 56-63; operators are depicted as a network nodes attaches by connectors within the analysis network);

creating a visual representation of said network (col. 3, lines 60-67; a plurality of analysis graphics objects, visually representing/a number of icons, for creating analysis network: col. 1, lines 65-67 and col. 2, lines 1-6; a number of icons representative of various analysis objects and databases are visualized to represent a number of analysis objects for creating an analysis network: col. 1, lines 66-67 and col. 2, lines 1-4, also see col. 4, lines 38-45; a plurality of analysis graphics objects, visually representing/a number of icons, for creating analysis network: col. 1, lines 65-67 and col. 2, lines 1-6);

linking said network to said data source in said visual representation and compiling said network and evaluating said data source using said network when said network is visually linked to said data source (col. 2, lines 1-16; also an analysis of database: col. 5, lines 45-50).

As to the limitations, "creating a plurality of output indicators corresponding to each of said operators on said visual representation of said network, wherein said output indicators visually represent a quantified output of said corresponding operators," Bosch does not explicitly indicate including the output indicators visually represent a qualified output of said corresponding operators.

However, Krehel discloses streams of data and the output of the graphical representation of the output of streams of data (col. 4, lines 8-14).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch with the teachings of Krehel so as to obtain stream of data for analyzing information from a stream of data or database by software of analysis tools (col. 6, lines 15-24). The motivation being that the analysis network including of a plurality of operation to analyze the information via user interface and objects to be analyzed are depicted as nodes as icons and connect in a visually graphics objects analysis network. The analysis information with a network of linked graphical representation operations (Krehel - col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or a selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

With respect to claims 16-21, Bosch discloses a method as discussed in claim 9.

As to the limitation, "wherein said output indicators further represent a quantified input of said corresponding operators, display the number of documents, pie char, bar chart, term map, and a response function, " Bosch does not explicitly indicate including one or more data streams and the output indicators visually represent a qualified output of said corresponding operators, number of document, pie chart, bar chart and response function.

However, Krehel discloses streams of data and the output of the graphical representation of the output of streams of data (col. 4, lines 8-14); the size of input



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stream of data (col. 4, lines 10-14); the pie and bar chart (col. 2, lines 5-10) and response function (via drag-drop function: col. 21, lines 20-26).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch with the teachings of Krehel so as to obtain stream of data for analyzing information from a stream of data or database by software of analysis tools (col. 6, lines 15-24). The motivation being that the analysis network including of a plurality of operation to analyze the information via user interface and objects to be analyzed are depicted as nodes as icons and connect in a visually graphics objects analysis network. The analysis information with a network of linked graphical representation operations (Krehel - col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or a selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

With respect to claim 22, Bosch discloses selecting a plurality of operators for detecting whether information satisfies a desired constraint (an analysis network including a set of network operations for analyzing objects in the system with a variety of object tools (col. 3, lines 18-64 and col. 4, lines 19-38);

linking said operators together in a network (analysis function connecting a analysis network via a graphics interface operations: col. 3, lines 56-63; operators are depicted as a network nodes attaches by connectors within the analysis network);

creating a visual representation of said network (a plurality of analysis graphics objects, visually representing a number of icons, for creating analysis network: col. 1,

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lines 65-67 and col. 2, lines 1-6; a number of icons representative of various analysis objects);

linking said data stream to said network in said visual representation (col. 3, lines 60-67; a plurality of analysis graphics objects, visually representing a number of icons, for creating analysis network: col. 1, lines 65-67 and col. 2, lines 1-6; a number of icons representative of various analysis objects and databases are visualized to represent a number of analysis objects for creating an analysis network: col. 1, lines 66-67 and col. 2, lines 1-4, also see col. 4, lines 38-45);

evaluating said received information against said network, automatically generating a programmed response when a constraint from at least one network operator is satisfied, and creating an output indicator, said indicator representing a response function initiated by one of said operators (in the analysis network, one of the analysis objects is data sources: col. 3, lines 50-56; also see col. 2, lines 12-16; analysis functions of the analysis network: col. 3, lines 1-3; analysis function connecting a analysis network via a graphics interface operations: col. 3, lines 56-63; a plurality of analysis graphics objects, visually representing/a number of icons, for creating analysis network: col. 1, lines 65-67 and col. 2, lines 1-6; and col. 2, lines 1-16; also an analysis of database: col. 5, lines 45-50).

As to the limitations, "automatically generating a programmed response when a constraint from at least one network operator is satisfied; and creating an output indicators, said indicator representing a response function initiated by said of operator,"

Bosch does not explicitly indicate generating a programmed response and including the output indicators visually represent a qualified output of said corresponding operators.

However, Krehel discloses drag-drop operation to response an operation (col. 21, lines 20-26); and streams of data and the output of the graphical representation of the output of streams of data (col. 4, lines 8-14).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch with the teachings of Krehel so as to obtain stream of data for analyzing information from a stream of data or database by software of analysis tools (col. 6, lines 15-24). The motivation being that the analysis network including of a plurality of operation to analyze the information via user interface and objects to be analyzed are depicted as nodes as icons and connect in a visually graphics objects analysis network. The analysis information with a network of linked graphical representation operations (Krehel - col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or a selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

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7. Claims 3-5 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,418,428 issued to Bosch et al. (hereinafter Bosch) in view of US Patent No. 6,208,985 issued to Krehel and further in view of US Patent No. 6,353,825 issued to Ponte.

With respect to claims 3-5, Bosch in view of Krehel discloses a method as discussed in claim 1.

As to the limitations, "combining said operators having a document identifier into operator database; a listing of data context identifiers having one or more corresponding document features group of terms, term counts," Bosch in view of Krehel does not explicitly indicate that the document identifier, terms.

However, Pont discloses document identifier, feature of document and term counts as claimed (col. 8, lines 50-67, col. 9, lines 1-67 and col. 10, lines 1-18; col. 23, lines 30-47, see fig 8 and fig 9; col. 19, lines 50-54 and col. 34, lines 39-47; col. 8, lines 50-67 and col. 9, lines 1-40 and col. 26, lines 21-60).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch in view of Krehel with the teachings of Ponte so as to obtain a method for the method including the selection of document based on the feature of documents determined to have the characteristic in order to generate a new rank ordered list of document (Ponte – col. 9, lines 45-60) and analyzing information from a stream of data or database by software of analysis tools (col. 6, lines 15-24). This combination would provide the method for analysis information with a network of linked graphical representation operations (Krehel

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- col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

With respect to claims 10-12, Bosch in view of Krehel discloses a method as discussed in claim 9.

As to the limitations, “combining said operators having a document identifier into operator database; a listing of data context identifiers having one or more corresponding document features group of terms, term counts,” Bosch in view of Krehel does not explicitly indicate that the document identifier, terms.

However, Pont discloses document identifier, feature of document and term counts as claimed (col. 8, lines 50-67, col. 9, lines 1-67 and col. 10, lines 1-18; col. 23, lines 30-47, see fig 8 and fig 9; col. 19, lines 50-54 and col. 34, lines 39-47; col. 8, lines 50-67 and col. 9, lines 1-40 and col. 26, lines 21-60).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch in view of Krehel with the teachings of Ponte so as to obtain a method for the method including the selection of document based on the feature of documents determined to have the characteristic in order to generate a new rank ordered list of document (Ponte – col. 9, lines 45-60) and analyzing information from a stream of data or database by software of analysis tools (col. 6, lines 15-24). This combination would provide the method for analysis information with a network of linked graphical representation operations (Krehel

- col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

8. Claims 6-8 and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,418,428 issued to Bosch et al. (hereinafter Bosch) in view of US Patent No. 6,208,985 issued to Krehel and further in view of US Patent No. 6,266,053 issued to French et al. (herein French).

With respect to claims 6-8, Busch in view of Krehel discloses a method as discussed in claim 1.

As to the limitations, "at least one of group consisting of a text file, audio file, video file, graphic file and picture file; data source is transmitted over a network and network comprises the Internet," Busch in view of Krehel does not explicitly indicate the files , a network and Internet.

However, French discloses multimedia data, network such as Internet as claimed (col. 1, lines 5-20, col. 7, lines 42-52 and col. 8, lines 14-18).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch in view of Krehel with the teachings of French so as to obtain a method for performing various

optimizations to transmit multimedia data over the network such as Internet (French – col. 5, lines 42-54). This combination would provide the method for analysis information with a network of linked graphical representation operations (Krehel - col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

With respect to claims 13-15, Busch in view of Krehel discloses a method as discussed in claim 9.

As to the limitations, "at least one of group consisting of a text file, audio file, video file, graphic file and picture file; data source is transmitted over a network and network comprises the Internet," Busch in view of Krehel does not explicitly indicate the files , a network and Internet.

However, French discloses multimedia data, network such as Internet as claimed (col. 1, lines 5-20, col. 7, lines 42-52 and col. 8, lines 14-18).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch in view of Krehel with the teachings of French so as to obtain a method for performing various optimizations to transmit multimedia data over the network such as Internet (French – col. 5, lines 42-54). This combination would provide the method for analysis information with a network of linked graphical representation operations (Krehel - col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and

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interconnected for analysis information of a database or selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

9. Claims 25-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,418,428 issued to Bosch et al. (hereinafter Bosch) in view of US Patent No. 6,208,985 issued to Krehel and further in view of US Patent No. 6,029,171 issued to Smiga et al. (herein Smiga).

With respect to claims 25-33, Bosch in view of Krehel discloses a method for automatically responding to information received from a data stream as discussed in claim 22.

As to the limitations, "wherein said programmed response comprises generating an email message; wherein said programmed response comprises generating a telephone voice message; wherein said output indicator represents an email message; and wherein said output indicator represents a telephone voice message; wherein said programmed response comprises generating a text message; creating an output indicator, said indicator representing a response function initiated by one of said operators; wherein said output indicator represents a text message and transmitting said output indicator over a computer network," Bosch in view of Krehel does not explicitly indicate that text message, email message, voice message and network.



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However, Smiga discloses text expression such as text message and response indicator as claimed (abstract, col. 1, lines 18-40, col. 2, lines 56-67, col. 3, lines 1-13 and col. 5, lines 22-55; col. 24, lines 16-31); and transmitting information over network as claimed (col. 4, lines 3-58).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Busch in view of Krehel with the teachings of Smiga so as to obtain a method for method having a way to for user interface with the linked objects includes lists, project, e-mail, document identifiers for displaying the information (Smiga – col. 5, lines 55-67 and col. 6, lines 1-10). This combination would provide the method for analysis information with a network of linked graphical representation operations (Krehel - col. 4, lines 1-28). Also, the various analysis objects are placed into the analysis network and interconnected for analysis information of a database or selected databases (Bosch – col. 2, lines 1-16) in the analyzing information using visualization representation environment.

***Conclusion***

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

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**Contact Information**

11. Any inquiry concerning this communication should be directed to Anh Ly whose telephone number is (703) 306-4527 or via E-Mail: **ANH.LY@USPTO.GOV**. The examiner can be reached on Monday - Friday from 8:00 AM to 4:00 PM.

If attempts to reach the examiner are unsuccessful, see the examiner's supervisor, John Breene, can be reached on (703) 305-9790.

Any response to this action should be mailed to:


Commissioner of Patents and Trademarks


Washington, D.C. 20231

or faxed to: Central Office (703) 872-9306 (Central Official Fax Number)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (receptionist).

Inquiries of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

ANH LY   
MAY 12<sup>th</sup>, 2004

  
JEAN M. CORRIELUS  
PRIMARY EXAMINER